

# NAVISTAR, INC

## DEFECT INFORMATION REPORT

TO: Manager  
Engine Programs Group (6405J)  
Environmental Protection Agency  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460

REPORT ID: 15-BB-12000716-03  
Revision.: -  
Ref. Investigation.: -  
Ref. AFC:-  
Ref. VERR:-

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DATE : December 02, 2015

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The following Defect Information Report is submitted in accordance with 40 CFR §1068.501. This report addresses an OBD software defect which causes the NOx Catalyst Efficiency Monitor to rarely complete its evaluation.

### [40 CFR §1068.501(d)(1)] MANUFACTURER CONTACT INFORMATION

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### [40 CFR §1068.501(d)(2)] DEFECT DESCRIPTION

While performing in-use testing of a Navistar ProStar truck with a 2013 model year N13 engine, it was observed the NOx aftertreatment monitor group was not advancing to “ready” status. As a result, this monitor group was not achieving its required In Use Monitor Performance Ratio (IUMPR). An investigation revealed undocumented changes had been made to the NOx Catalyst Efficiency Monitor during a software update. The net effect of these changes to the monitor being it would rarely complete its evaluation, preventing the NOx aftertreatment monitor group from advancing to “ready” status.

### [40 CFR §1068.501(d)(3)] DESCRIPTION OF VEHICLES/ENGINES AFFECTED

Software containing this defect was released to production in May 2014, however, when vehicles are serviced; it is standard practice to re-program ECU’s with the most recent software version. In this case we have currently identified the entire engine population as seen below.

<u>Engine Family Name</u>	<u>Model Year</u>	<u>Engine Model</u>	<u>Engine Plant Ship Dates</u>
DNVXH07570SB	2013	N13	2013
ENVXH07570SB	2014	N13	2014
FNVXH07570SB	2015	N13	2015

[40 CFR §1068.501(d)(4)] NUMBER OF ENGINES ESTIMATED TO HAVE DEFECT

The volumes listed below are the entire family volume, not just the US volume. US volumes have not yet been determined.

<u>Engine Family Name</u>	<u>Number of Engines</u>	<u>Total US Production</u>	<u>Percent of Family Affected</u>
	<u>Affected</u>		
DNVXH07570SB	5,457	5,298	~100%
ENVXH07570SB	8,846	7,758	~100%
FNVXH07570SB	1,047	13,853 (estimated)	~8%

[40 CFR §1068.501(d)(5)] EVALUATION OF EMISSIONS IMPACT

This defect has no impact on emissions. It does affect the ability of the NOx aftertreatment monitor group to achieve “ready” status and negatively impacts the IUMPR for this monitor group.

[40 CFR §1068.501 (d)(6)] ANTICIPATED MANUFACTURER FOLLOW-UP

Navistar has created an Excel based macro which identifies every change being made when updating software and has incorporated the use of this macro in its review process. This will prevent any undocumented changes from being made. Navistar is currently considering its options to correct this issue, which may include a voluntary emission recall.

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